

FORM PTO-14	SERIAL NO. 10/762,028	CASE NO. 7814/93
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	FILING DATE January 20, 2004	GROUP ART UNIT 1625
(use several sheets if necessary)		APPLICANT(S): Hisashi Yamamoto et al.

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER <small>Number-Kind Code (if known)</small>	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
B/D	A1	4,471,130	09/11/1984	Katsuki et al.		
B/D	A2	4,900,847	02/13/1990	Hanson et al.		
B/D	A3	6,271,400 B2	08/07/2001	Sharpless et al.		

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER <small>Number-Kind Code (if known)</small>	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES OR NO
B/D	A4	2002-88046	03/27/2002	Japan		

EXAMINER INITIAL	OTHER ART - NON PATENT LITERATURE DOCUMENTS <small>(Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.</small>	
B/D	A5	Bernardi, P. et al., "A General and Convenient Procedure for the Synthesis of <i>N</i> -Alkylarylamines and <i>N</i> -Alkylheteroarylamines by Electrophilic Amination of Cuprates with <i>N</i> -Alkylhydroxylamines," <i>J. Org. Chem.</i> , 1999 , 64(2), 641-643.
B/D	A6	Blum, S.A. et al., "Enantioselective Oxidation of Di- <i>tert</i> -Butyl Disulfide with a Vanadium Catalyst: Progress toward Mechanism Elucidation," <i>J. Org. Chem.</i> 2003 , 68(1), 150-155.
B/D	A7	Bolm, C. and Kühn, T., "Asymmetric Epoxidation of Allylic Alcohols Using Vanadium Complexes of (<i>N</i>)-Hydroxy-[2.2]paracyclophane-4-carboxylic Amides," <i>Synlett</i> , 2000 , 6, 899-901.
B/D	A8	Bolm, C. and Bienewald, F., "Asymmetric Sulfide Oxidation with Vanadium Catalysts and H ₂ O ₂ ," <i>Angew. Chem. Int. Ed. Engl.</i> , 1995 , 34 (23/24), 2640-2642.
B/D	A9	Brougham, P. et al. "Oxidation Reactions Using Magnesium Monoperphthalate: A Comparison with <i>m</i> -Chloroperoxybenzoic Acid," <i>Synthesis</i> , 1987 , 1015-16.
B/D	A10	Cavello, L. and Jacobsen, H., "Electronic Effects in (salen)Mn-Based Epoxidation Catalysts," <i>J. Org. Chem.</i> , 2003 , 68(16), 6202-6207.
B/D	A11	Cogan, D.A. et al., "Catalytic Asymmetric Oxidation of <i>tert</i> -Butyl Disulfide. Synthesis of <i>tert</i> -Butanesulfinamides, <i>tert</i> -Butyl Sulfoxides, and <i>tert</i> -Butanesulfinimines," <i>J. Am. Chem. Soc.</i> , 1998 , 120(32), 8011-19.
B/D	A12	Dittmer, D.C. et al., "A Tellurium Transposition Route to Allylic Alcohols: Overcoming Some Limitations of the Sharpless-Katsuki Asymmetric Epoxidation," <i>J. Org. Chem.</i> , 1993 , 58(3), 718-731.
B/D	A13	Galsbøl, F. et al., "The Preparation, Separation, and Characterization of the <i>le</i> ₃ - and <i>ob</i> ₃ -Isomers of Tris(<i>trans</i> -1,2-cyclohexanediamine)rhodium(III) Complexes," <i>Acta. Chem. Scand.</i> 1972 , 26(9), 3605-3611.
B/D	A14	Gao, Y. et al., "Catalytic Asymmetric Epoxidation and Kinetic Resolution: Modified Procedures Including in Situ Derivatization," <i>J. Am. Chem. Soc.</i> , 1987 , 109(19), 5765-5780.

EXAMINER <i>B. D. Dittmer</i>	DATE CONSIDERED 7-25-2005
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FORM PTO-1449	SERIAL NO. 10/762,028	CASE NO. 7814/93
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EXAMINER INITIAL	OTHER ART – NON PATENT LITERATURE DOCUMENTS (Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.	
B/D	A15	Grundke, G. et al., "Optically Active <i>N</i> -Hydroxy- α -L-Amino Acid Methyl Esters: An Improved and Simplified Synthesis," <i>Synthesis</i> , 1987, 1115-1116.
B/D	A16	Hajipour, A. R. and Pyne, S.G., "A Rapid and Efficient Synthesis of Oxaziridines and Diaryl Nitrones Using Oxone," <i>J. Chem. Research (S)</i> , 1992, 388.
B/D	A17	Hartung, J. and Greb, M., "Transition metal-catalyzed oxidations of bishomoallylic alcohols," <i>Journal of Organometallic Chemistry</i> 2002, 661, 67-84.
B/D	A18	Hirao, T., "Vanadium in Modern Organic Synthesis," <i>Chemical Reviews</i> , 1997, 97(8), 2707-2724.
B/D	A19	Hoshino, Y. et al., "Design of Optically Active Hydroxamic Acids as Ligands in Vanadium-Catalyzed Asymmetric Epoxidation," <i>Bull. Chem. Soc. Jpn.</i> , 2000, 73, 1653-1658.
B/D	A20	Hoshino, Y. and Yamamoto, H., "Novel α -Amino Acid-Based Hydroxamic Acid Ligands for Vanadium-Catalyzed Asymmetric Epoxidation of Allylic Alcohols," <i>J. Am. Chem. Soc.</i> , 2000, 122(42), 10452-53.
B/D	A21	Itoh, T. et al., "Vanadium-Catalyzed Epoxidation of Cyclic Allylic Alcohols, Stereoselectivity and Stereocontrol Mechanism," <i>Journal of the American Chemical Society</i> , 1979, 101(1), 159-169.
B/D	A22	Katsuki, T. and Sharpless, K.B., "The First Practical Method for Asymmetric Epoxidation," <i>J. Am. Chem. Soc.</i> , 1980, 102(18), 5974-5976.
B/D	A23	Khlestin, V.K. et al., "Intramolecular Cyclization of 1,2-Bis(<i>N</i> -alkoxy- <i>N</i> -nitrosoamino)alkanes: A Unique Route to 4,5-Dihydro-1,2,3-triazole 2-Oxides," <i>Synthesis</i> , 2000, 5, 681-690.
B/D	A24	Larrow, J.F. et al., "A Practical Method for the Large-Scale Preparation of [<i>N,N</i> -Bis(3,5-di- <i>tert</i> -butylsalicylidene)-1,2-cyclohexanediaminato(2-)]manganese(III) Chloride, a Highly Enantioselective Epoxidation Catalyst," <i>J. Org. Chem.</i> , 1994, 59(7), 1939-1942.
B/D	A25	Ligtenbarg, A.G.J. et al., "Catalytic oxidations by vanadium complexes," <i>Coordination Chemistry Reviews</i> , 2003, 237, 89-101.
B/D	A26	Liu, G. et al., "Catalytic Asymmetric Synthesis of <i>tert</i> -Butanesulfinamide. Application to the Asymmetric Synthesis of Amines," <i>J. Am. Chem. Soc.</i> , 1997, 119(41), 9913-9914.
B/D	A27	Makita, N. et al., "Asymmetric Epoxidation of Homoallylic Alcohols and Application in a Concise Total Synthesis of (-)- α -Bisabolol and (-)-8- <i>epi</i> - α -Bisabolol**," <i>Angew. Chem. Int. Ed.</i> , 2003, 42(8), 941-943.
B/D	A28	Mazhukin, D. G. et al., "Interaction of 1,2-Bishydroxylamines with 1,2-Dicarbonyl Compounds. Isolation and Properties of 2,3-Dihydropyrazine-1,4-Dioxides," Novosibirsk Institute of Organic Chemistry, Siberian Branch, Russian Academy of Sciences, translated from <i>Khimiya Geterotsiklicheskikh Soedinenii</i> , 1993, 4, 514-522.
B/D	A29	Mazhukin, D. G. et al., "Organic Chemistry – Synthesis of aliphatic 1,2-bishydroxylamines from 1,3-dihydroxyimidazolidines. The crystal structure of 1,2-bishydroxylaminocycloalkanes," <i>Russian Chemical Bulletin</i> , 1993, 42(5), 851-857.
B/D	A30	Mazhukin, D. G. et al., "Synthesis of 1,2-bis(methoxyamino)cycloalkanes from alicyclic 1,2-bis(hydroxyamines)," <i>Russian Chemical Bulletin</i> , 1996, 45(4), 925-929.
B/D	A31	Mazhukin, D.G. et al., "Synthesis of Indeno[1,2- <i>b</i>]pyrazine <i>N</i> -Oxides by Reaction of Ninhydrin with 1,2-Bishydroxylamines," <i>Liebigs Ann. Chem.</i> 1994, 983-987.
B/D	A32	Michaelson, R. C. et al., "Chiral Hydroxamic Acids as Ligands in the Vanadium Catalyzed Asymmetric Epoxidation of Allylic Alcohols by <i>tert</i> -Butyl Hydroperoxide," <i>Journal of the American Chemical Society</i> , 1997, 99(6), 1990-1992.

EXAMINER B/D	DATE CONSIDERED 1-25-2005
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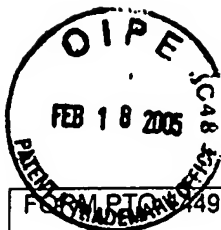
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<i>B</i>	A33	Mihelich, E.D. et al., "Vanadium-Catalyzed Epoxidations. 2. Highly Stereoselective Epoxidations of Acyclic Homoallylic Alcohols Predicted by a Detailed Transition-State Model," <i>J. Am. Chem. Soc.</i> , 1981, 103(25), 7690-92.
<i>B</i>	A34	Murase, N. et al., "Chiral Vanadium-Based Catalysts for Asymmetric Epoxidation of Allylic Alcohols," <i>J. Org. Chem.</i> , 1999, 64(2), 338-339.
<i>B</i>	A35	Okachi, T. et al., "Catalytic Enantioselective Epoxidation of Homoallylic Alcohols by Chiral Zirconium Complexes," <i>Org. Lett.</i> , 2003, 5(1), 85-87.
<i>B</i>	A36	Stoner, E.J. et al., "Benzylation via Tandem Grignard Reaction – Iodonitrimethylsilane (TMSI) Mediated Reduction," <i>Tetrahedron</i> , 1995, 51(41), 11043-11062.
<i>B</i>	A37	Tikhonov, A.Y. et al., "Synthesis and Inhibitory Effect on Platelet Aggregation and Antihypertensive Activity of 1-Hydroxy-2,5-dihydro-1H-imidazole-2-carboxylic Acid 3-Oxides, 1,3-Dihydroxyimidazolidine-2-carboxylic Acids, and 1,4-Dihydroxy-2,3-piperazinediones," <i>Arch. Pharm. Pharm. Med. Chem.</i> , 1999, 332, 305-308.
<i>B</i>	A38	Traber, B. et al., "Chiral Hydroxamic Acids as Ligands for the Vanadium Catalyzed Asymmetric Epoxidation of Allylic Alcohols," <i>Bull Korean Chem. Soc.</i> , 2001, 22(6), 547-548.
<i>B</i>	A39	Wu, H.L. and Uang, B.J., "Asymmetric epoxidation of allylic alcohols catalyzed by new chiral vanadium(V) complexes," <i>Tetrahedron: Asymmetry</i> , 2002, 13, 2625-28.

EXAMINER <i>B. D. D. D.</i>	DATE CONSIDERED 7-25-2005
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FORM PTO 49	SERIAL NO. 10/762,028	CASE NO. 7814/93
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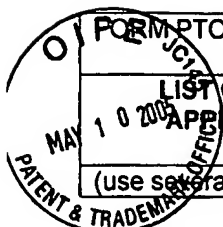
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B1	Hoshino, Y. and Yamamoto, H., "Development of optically active hydroxamic acid coordinator: asymmetric epoxylation reactions of aryl alcohol," <i>Yuki Gosei Kagaku Kyokaishi (J. Synth. Org. Chem. Jpn.)</i> , 2002, 60(5), 504-505.	

EXAMINER B1	DATE CONSIDERED 7-25-2005
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U.S. PATENT DOCUMENTS

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	C1	5,602,267	2/11/1997	Zhao		

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(Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.

<i>BA</i>	C2	Waldemar, A., et al., "Control of Enantioselectivity through a Hydrogen-bonded template in the vanadium(V)-catalyzed epoxidation of allylic alcohols by optically active hydroperoxides", Tetrahedron: Asymmetry, 14(10), pp. 1355-1361.
<i>BA</i>	C3	International Search report dated April 8, 2005.
<i>BA</i>	C4	Written Opinion for PCT/US2005/000306 dated April 8, 2005.

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